

COURSE SYLLABUS - MAT 103
Quantitative Reasoning
Tuesday, Thursday 8:00-9:15am

COURSE DESIGNATION

Quantitative Reasoning. Numerical, visual, verbal, and symbolic aspects of quantitative reasoning with emphasis on interpretation of quantitative information in real world problems. This course does not satisfy the math general education requirement for business majors.

(3 hrs. credit) Prerequisites: 2 years of high school algebra or the equivalent.

TEXT

Staszko and Bradshaw. Quantitative Reasoning MAT 103. Thomson, Brooks/Cole, 2005. (ISBN 0-495-13106-7)

This is a custom textbook from Thomson Custom Solutions Company. It is bound especially for Delta State University. It is comprised of chapters taken from *The Mathematical Palette*. (ISBN 0-534-40365-4)

INSTRUCTOR

Dr. Lee Virden

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COURSE OBJECTIVES

This course seeks to develop in the student a competency in problem solving and analysis which will be helpful in personal decision-making, in evaluating concerns in the community, city, and nation, and in setting and achieving career goals.

Upon successful completion of this course the student will be able to:

1. Define key terms related to sets, Venn diagrams, algebraic models, probability statistics and finance.
2. Use Venn diagrams to solve problems related to surveys and probabilities.
3. Use counting techniques as methods of problem solving.
4. Calculate and interpret probabilities, including probabilities from frequency tables, pie charts, and probability distributions.
5. Compute and interpret statistics pertaining to data sets.
6. Gather, organize, describe, and analyze data to make and support decisions.
7. Communicate results using the language of probability and statistics.
8. Develop and apply sampling procedures to political surveys, manufacturing quality control, and the life sciences.
9. Solve personal finance problems related to savings and interest, taxes, discounts, credit, and other purchases, such as homes and automobiles.
10. Apply a variety of problem-solving techniques to real-world problems.

GRADING AND EVALUATION

Grades will be assigned using the scale: A(90 - 100) B(80 - 89) C(70 - 79) D(60 - 69) F(below 60)

1. Homework will be assigned on a regular basis and may be collected to be graded. Announced and unannounced daily quizzes will also be given throughout the semester. No credit will be given for *answers only* unless we have agreed on this prior to the individual assignment. You may use your calculator on all in-class work, homework, and tests. We will also have many group assignments. These will also be graded and considered as part of your in-class work.
2. Three or four scheduled tests will be given during the semester. The average of homework, daily quizzes, and in-class work will count as an additional test. These scores will comprise 75% of your final grade. A **comprehensive final examination** will comprise the other 25%. There will be at least one question on each test that requires a written explanation of a concept. Evaluation of the answer to this question will be based on mathematical content, spelling, grammar, and sentence construction.
3. Cheating and plagiarism will not be tolerated. If it is established that a violation has occurred, the instructor may determine the penalty, or he/she may report the offense to the department chair and dean of the school. The usual penalty involves a grade of zero on the test, examination, or paper in question.

CLASS ATTENDANCE

1. Prompt and regular attendance is necessary for success in this course. In order to receive credit in this course, a student must attend a minimum of 75% of the class meetings. Classes meeting twice a week will be allowed a total of 7 absences, **excused and unexcused combined**. If you exceed the allowable number of absences, a grade of "F" will be assigned as the final grade in this course.
2. If a student is tardy for class, it is the student's responsibility to request that the faculty member change the recorded absence to a tardy. This must be done on the day the tardy occurs. A maximum of 3 tardies will be allowed. Any additional tardies will be recorded as unexcused absences.
3. **Perfect attendance will be rewarded at the end of the semester.** Two points will be added to your final semester average if you have no absences, and one point will be added if you have only one absence.

AMERICANS WITH DISABILITIES ACT

Delta State University adheres to the requirements of the Americans with Disabilities Act. If you need an accommodation under this Act due to a disability, contact Dr. Richard Houston in the Office of Disability Services at 846-4690.

CLASSROOM POLICIES AND MAKEUP TESTS

1. **Turn off cell phones and pagers upon entering the classroom. Do not check messages or send text messages during class. If you are seen using a cell phone during class, you will be asked to leave. If you are seen using a cell phone during a test, I will assume that you are using it to cheat. No cell phone calculators may be used during class.**
2. Do not eat in the classroom.
3. Do not bring guests, including children, to class.
4. Do come to class on time and be prepared to begin class at the scheduled time. Do not ask to leave class early. Schedule all appointments at times that do not conflict with class time.
5. Come to my office for help during scheduled office hours. No appointment is necessary. It is extremely important that you understand the material from each class prior to the next class. If your class and/or work schedule conflicts with the office hours that I offer, feel free to make an appointment for a time not listed. Scheduled office hours are:

Monday	Tuesday	Wednesday	Thursday	Friday
	9:15 – 10:45	10:00 – 11:00	9:15 – 10:45	
1:15 – 2:45	1:15 – 2:45	1:15 – 2:45	1:15 – 2:45	

6. Quizzes will be given and homework may be collected periodically, announced or unannounced, throughout the semester. Even if you miss a class, you are expected to have all of your assignments up-to-date when you return to class. If you need the assignment, you may call my office or email me before 3:00 p.m. **If you are tardy or absent on the day that a quiz is given or homework is collected, you must present a written excuse acceptable by the university (along with the missed work, if homework) as soon as you return to class.** Failure to do so will result in a zero on the missed day's homework or quiz.
7. Scheduled tests will be announced at least one week prior to the actual test date. Make-up tests will only be given to those students presenting a written excuse, acceptable by the university. If you know ahead of time that you are going to miss a test, notify me as soon as possible before the test date. If possible, your test will be administered before the absence. If you are not able to provide advance notice, due to an emergency or illness on the day of the test, you **MUST** contact me on the day the test is given to make arrangements for a make-up test. This absence will still require a written excuse. All make-up work must be completed within three class days of the originally scheduled work or test. Any absence from scheduled work must be covered by a written excuse from the Vice President for Academic Affairs, the Student Health Center, or a doctor before the student is allowed to make up that work. Any exception to this rule must be approved before the missed work!
8. A statistical calculator is required for this course. Do not expect me to know how to operate your calculator without the manual. Please don't ask to borrow a calculator from me or one of your classmates on test day, since rarely do two calculators operate exactly the same. Bring your calculator to class every day.

IMPORTANT DATES

1. Students who remain in the course more than one week after the first test and who then elect to drop the course will receive a grade of **W** if passing or a grade of **F** if failing the course at the time of the drop. A drop is not effective and complete until the drop slip has been signed by all parties designated and turned in to the Registrar's office.
2. No course may be dropped after **April 30, 2010**.
3. The comprehensive final exam for this course is scheduled for **Tuesday, May 4, 2010 at 8:00 a.m.** That is when it must be taken. ***Please do not make travel arrangements that conflict with this date!***